INTRODUCTION

Mission

The Naval Postgraduate School (NPS) was established to serve the advanced educational needs of the Navy. The broad responsibility of the school is reflected in its stated mission:

Increase the combat effectiveness of U.S. and allied armed forces and enhance the security of the U.S.A. through advanced education and research programs focused on the technical, analytical, and managerial tools needed to confront defense related challenges of the future.

To fulfill its mission, the Naval Postgraduate School strives to sustain excellence in the quality of its instructional programs, to be responsive to technological change and innovation in the Navy, and to prepare officers to introduce and utilize future technologies.

The research program at NPS exists to support the primary mission of graduate education. Research at NPS:

- maintains upper division course content and programs at the cutting edge;
- challenges students with creative problem solving experiences and DoD relevant issues;
- advances DoN/DoD technology;
- solves warfare problems; and
- attracts and retains quality faculty.

Academic Programs

To meet its educational requirements, the Navy has developed a unique academic institution at the Naval Postgraduate School through the use of specially tailored academic programs, and a distinctive organization tying academic disciplines to naval and joint warfighting applications.

NPS is an academic institution whose emphasis is on study and research programs that are relevant to the Navy's interests, as well as the interests of other arms of the Department of Defense (DoD). The programs are designed to accommodate the unique requirements of the military, including requirements for Defense Acquisition, and the Program for Joint Education (PJE).

Curricula at NPS are grouped into four schools:

Graduate School of Operational and Information Sciences

- Computer Science
- Electronic Warfare International
- Information Systems Technology
- Joint C4I Systems
- Modeling, Virtual Environment, and Simulation (MOVES)
- Operations Analysis
- Operational Logistics

- Special Operations
- Intelligence Information Management
- Undersea Warfare
- Undersea Warfare International
- Information Systems and Operations
- Systems Engineering and Intelligence (SEI)
- Software Engineering
- Space Systems Operations

Graduate School of Business and Public Policy

- Acquisition/Contract Management
- Contract Management
- Defense Systems Management/Analysis
- Financial Management
- Manpower Systems Analysis
- Leadership Education and Development
- Material Logistics

- Shore Installation Management
- Systems Acquisition Management
- Systems Inventory Management
- Transportation Management
- Transportation Logistics Management
- Program Management

School of International Graduate Studies

- Area Studies
 - Middle East, Africa, South Asia, Far East, Southeast Asia, Pacific
 - Middle East, Africa, South Asia
 - Western Hemisphere
 - Russia, Europe, Central Asia
- Civil Military Relations

- Regional Intelligence
- International Program/Defense Systems Management
- Strategic Studies
- Resource/Planning Management for International Defense

Graduate School of Engineering and Applied Sciences

- Aeronautical Engineering Avionics
- Aeronautical Engineering
- Applied Mathematics
- Electronic Systems Engineering
- Meteorology-Oceanography (METOC)
- Combat Systems
- Meteorology

- Naval/Mechanical Engineering
- Oceanography
- Operational Oceanography
- Test Pilot School Co-Op
- Underwater Acoustics
- Applied Physics

Students

The student body consists of U.S. officers from all branches of the uniformed services, civilian employees of the federal government and military officers and government civilian employees of other countries. Resident degree/subspecialty student population for June 2001 is shown in Figure 1.

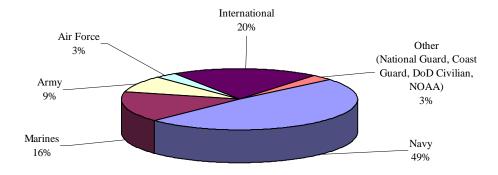


Figure 1. Resident Degree/Subspecialty Student Population for June 2001 (Total Enrollment: 1192)

INTRODUCTION

Academic Degrees

Although the curricula are tailored to address defense requirements, they are developed within the framework of classical academic degrees, meeting the highest academic standards. Each curriculum leads to a master's degree; however, additional study can lead to either an engineer's degree or the doctor's degree. Below is a listing of the degrees offered at NPS:

Master of Science Degrees

Aeronautical Engineering

Applied Mathematics

Applied Physics

Applied Science

Astronautical Engineering

Computer Engineering

Computer Science

Contract Management

Defense Analysis

Electrical Engineering

Engineering Acoustics

Engineering Science

Information Science and Operations

Information Technology Management

International Resource Planning and Management

Leadership and Human Resource Development

Management

Materials Science and Engineering

Mechanical Engineering

Meteorology

Meteorology and Physical Oceanography

Modeling, Virtual Environments, and Simulation

Operations Research

Physical Oceanography

Physics

Program Management

Software Engineering

Space Systems Operations

Systems Engineering Systems Technology

Master of Arts Degrees

International Security and Civil-Military Relations

National Security Affairs

Engineer Degrees

Aeronautical and Astronautical Engineer

Electrical Engineer

Mechanical Engineer

Doctor of Philosophy

Aeronautical and Astronautical Engineering

Applied Mathematics Applied Physics

Computer Science

Electrical Engineering Engineering Acoustics

Mechanical Engineering Meteorology

Modeling, Virtual Environments, and Simulation

Operations Research

Physical Oceanography

Physics

Software Engineering

Doctor of Engineering

Aeronautical and Astronautical Engineering

Engineering Acoustics

Mechanical Engineering

There were 208 degrees conferred in June 2001. Figure 2 indicates the distribution of degree type; Figure 3 indicates the degrees conferred.

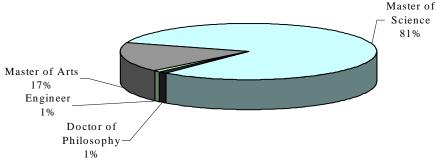


Figure 2. Distribution of Degree Type

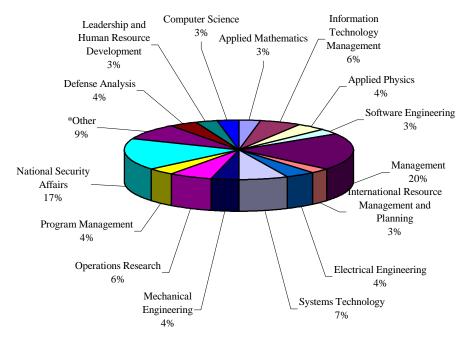


Figure 3. Distribution of Degrees Conferred in June 2001 (208 Degrees Conferred)

*Ph.D. Electrical Engineering (1); Aeronautical and Astronautical Engineer (1); Electrical Engineer (1); M.S. Astronautical Engineering (3); M.S. Engineering Acoustics (1); M.S. Information Systems and Operations (3); M.S. Physical Oceanography (2); M.S. Physics (2); M.S. Systems Engineering (1); M.A. International Security and Civil-Military Relations.

Thesis

The thesis is the capstone achievement of the student's academic endeavor at NPS. Thesis topics address issues from the current needs of the Fleet and Joint Forces to the science and technology that is required to sustain long-term superiority of the Navy/DoD.

Students, with their faculty advisors, provide a very unique capability within the DoD for addressing warfighting problems. This capability is especially important at the present time when technology in general, and information operations in particular, are changing rapidly. Our officers must be able to think innovatively and have the knowledge and skills that will let them apply technologies that are rapidly being developed in both the commercial and military sectors. Their unique knowledge of operations, when combined with a challenging thesis project which requires them to apply their focused graduate education, is one of the most effective methods for solving both Fleet/Joint Force problems and instilling the life-long capability for applying basic principles to the creative solution of complex problems.